

AMENDMENTS TO THE CLAIMS

This listing of claims replaces all prior versions, and listings, of claims in the application:

What is claimed is:

1. (currently amended) A storm water detention system comprising a basin sized and positioned to accumulate storm water, an outlet, and a flow limiting structure impeding flow of water out of the basin through the outlet, the flow limiting inlet structure comprising:
 - a set of two or more baffles adapted to hinder the flow of floating surface contaminants into the outlet, wherein an inlet area of the set increases as fluid depth increases;
 - a discharge riser having openings sized or spaced such that a adapted to control the discharge flow rate remains substantially independent of the water depth out of the basin to effectively capture sediment in the basin;
 - wherein each of the baffles has a upper edge and a lower edge;
 - the upper edge defines a upper opening;
 - the lower edge defines a lower opening; and
 - wherein each baffle is coupled to the riser such that water is able to flow over the upper edge into the riser through the upper opening.
2. (currently amended) The system of claim 1 wherein the set of one or more baffles are a tiered set of nested baffles wherein:
 - each baffle that is nested within another baffle is positioned at a lower height than the baffle it is nested within;
 - the baffles of the set of baffles overlap each other;
 - the difference in height between the upper edge of any baffle that is nested within another baffle and the lower edge of the baffle it is nested within is at least 1/2 inch;
 - the lower inlet area of a baffle of the set of baffles is less than the non overflow inlet area of the discharge riser; and
 - the number of baffles in the set of baffles is at least 3.

Wherein the baffles have relative spacing such that the discharge rate remains substantially independent of the water depth.

3. (Currently amended) A flow limiting inlet structure ~~comprising~~ comprising:
a tiered set of one or more baffles coupled to an outlet; each surrounding a discharge riser,
the set adapted to inhibit the flow of surface materials through the baffle set,
wherein the inlet area of the baffle set increases as fluid depth increases
wherein each of the baffles has a upper edge and a lower edge;
wherein the upper edge defines a first opening and the lower edge defines a second
opening; and
wherein each baffle is sized or configured such that a discharge rate through the outlet
remains substantially independent of the water depth.
4. (Currently amended) A flow limiting inlet structure comprising a discharge riser surrounded by a tiered set of nested baffles wherein an inlet area of the set increases as fluid depth increases, and at least one baffle having a upper edge defining a upper opening allowing water to flow through.
5. (original) The structure of claim 4 wherein each baffle that is nested within another baffle is positioned at a lower height than the baffle it is nested within.
6. (canceled) The structure of claim 5 wherein the baffles of the set of baffles overlap each other.
7. (Currently amended) The structure of claim 6 wherein the difference in height between the upper edge of any baffle that is nested within another baffle ~~and the~~ and a lower edge of the baffle it is nested within is at least 1/2 inch.
8. (Currently amended) The structure of claim 4 wherein ~~the lower a~~ a lower inlet area of a baffle of the set of baffles is less than ~~the~~ than an non-overflow inlet area of the discharge riser.
9. (Currently amended) The structure of claim 4 wherein ~~the lower a~~ a lower inlet area of a baffle of the set of baffles is less than ~~half the~~ half an non-overflow inlet area of the discharge riser.

10. (Currently amended) The structure of claim 4 wherein ~~the lower~~ a lower inlet area of a baffle of the set of baffles is less than one ~~third~~ third an non-overflow inlet area of the discharge riser.
11. (original) The structure of claim 4 wherein the number of baffles in the set of baffles is at least X where X is one of 2, 3, and 4.
12. (new) The structure of claim 4 wherein each baffle is sized or configured such that a discharge rate through a outlet remains substantially independent of the water depth.
13. (new) The structure of claim 4 wherein the discharge riser has openings sized or positioned such that a discharge rate through a outlet remains substantially independent of the water depth.